

## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Ding, Shou-wei
- (ii) TITLE OF INVENTION: DISEASE RESISTANT TRANSGENIC PLANTS
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Rothwell, Figg, Ernst & Kurz
  - (B) STREET: 555 Thirteenth Street, N.W., Suite 701 East
  - (C) CITY: Washington
  - (D) STATE: DC
  - (E) COUNTRY: USA
  - (F) ZIP: 20004
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Figg, Edward A.
  - (B) REGISTRATION NUMBER: 27,195
  - (C) REFERENCE/DOCKET NUMBER: 2248-108
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: 202-783-6040
  - (B) TELEFAX: 202-783-6031

## (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 328 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Tomato aspermy virus
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: pTMV-30B
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

(2) INFORMATION FOR SEQ ID NO:2:

- (x1) SEQUENCE DESCRIPTION: SEQ ID NO:2:

(2) INFORMATION FOR SEQ ID NO:3:

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(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 328 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
    (A) DESCRIPTION: /desc = "Synthetic DNA"

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:
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(A) ORGANISM: Tomato aspermy virus

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTAVd2b2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| ACCGTTAAGA AGAAGTAGAA TGTAAGCAT CGAGATCCCT CTACACGAGA TCATTCGAAA   | 60  |
| GTTGGAACGG ATGAATCAAA AGAAACAAGC ACAGAGGAAA CGACACAAAC TGAACCGCAA  | 120 |
| GGAGCGGGGT CACAAAAGTC CAAGTGAATA AAGGTGATCG GAGTTATGGC ACGCGCGTCA  | 180 |
| AGTTGAACTT TCTGCCATTA ATTCCGATAA TTCTTCAGAT GAGGGTACCA CTCTGTGTCTG | 240 |
| CTTTGACACA TTTGGTTCCA ACTCTGATGC TATTTGTGAT CGCTCTGACT GGTGTCTCGA  | 300 |
| TCAATGATTT CCGACCCTTC GTCGTCCG                                     | 328 |

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 504 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Cucumber mosaic virus

(vii) IMMEDIATE SOURCE:

(B) CLONE: pCMV2b

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

|                                                                   |     |
|-------------------------------------------------------------------|-----|
| GATCCATGGA TGTGTTGACA GTAGTGGTGT CGACCGCCGA CCTCCACTTA GCCAATTTGC | 60  |
| AGGAGGTGAA ACGTCGAAGA CGAAGGTCTC ACGTCAGAAA CCGGCGAGCG AGGGGTTACA | 120 |
| AAAGTCCCAG CGAGAGAGCG CGATCTATAG CGAGACTTTT CCAGATGTTA CCATTCCACG | 180 |
| GAGTAGATCC CGTGGATTGG TTTCCTGATG TCGTTCGCTC TCCGTCCGTT ACCAGCCTTG | 240 |
| TTTCTTATGA ATCTTTTGAT GATACTGATT GGTTCGTGG TAACGAATGG GCCGAAGGGT  | 300 |
| CGTTTTGATT TCCGACCCTT CGTCGTCCGA AGACGTTAAA CTACGCTCTC TTTATTGCGA | 360 |
| GTGCTGAGTT GGTAGTTTGC TCTAACTAT CTGAAGTCGC TAAATCCATT ACTGGTTGCG  | 420 |
| AACGGGTTGT CCATCCAGCT TACGGCTAAA ATGGTCAGTC ATGCCCAAA GGCATGCCGA  | 480 |
| CACCCTACAG GGTGTCTGAG GTAC                                        | 504 |

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